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22 April 1960

MEMORANDUM FOR: Chief, TISD

*JWC*  
*2 May 60*

SUBJECT: Visit to Cape Canaveral [REDACTED]

25X1A

1. On 20 April 1960, the undersigned, along with [REDACTED] visited the photographic laboratory facilities at Cape Canaveral, Florida for the purpose of examining laboratory equipment, with special emphasis on chemical replenishment, storage, and recirculation systems. The laboratory at Cape Canaveral is concerned primarily with 70mm, 35mm and 16mm high-speed cinema photography. The 70mm material is a Kodacolor negative from which six positive color transparencies are generated. The 35mm and 16mm materials are Anscochrome color transparencies. The laboratory is under the direction of [REDACTED] personnel. The continuous processing equipment, the chemical storage replenishment, recirculation and water purification was installed by [REDACTED]. This is truly a modern laboratory devoted to generating these color products in the shortest time interval after exposure. Particular attention seems to have been devoted to the chemical systems support of this effort. None of the processing equipment is allowed to stand with chemical solutions. The working solutions are returned to storage and the tanks are washed and buffered. The returned chemicals are kept <sup>at</sup> proper operating temperature, are filtered and replenished and stand ready at all times to be returned to their respective processing machines. This appears to be the most efficient system for maintaining the equipment in top operating condition as well as providing a facility for immediate use of the photographic chemicals in their proper state of activity and temperature.

After the visit to the laboratories, the PIC personnel were given a tour of the Cape, which included an inspection of the block houses, the various missile pads, and a detailed look at the Navy Polaris missile. The undersigned wishes to make known his

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25X1A appreciation to [REDACTED] for the arrangements made for this visit as well as for the transportation to and from Patrick AFB in a Navy aircraft SNB-5.

25X1A 3. On 21 April the undersigned visited the [REDACTED] 25X1A laboratories in [REDACTED] for the purpose of inspecting what is probably the largest photo finishing facility in this area. Again the emphasis was placed on the chemical replenishment, recirculation and storage systems in use at this plant. [REDACTED] 25X1A

25X1A [REDACTED] were most cooperative in their efforts to acquaint the undersigned with the details of their operation. Here the emphasis seems to have been placed on the quality controls of the chemical system necessary to operate this enormous photo finishing plant. The various solutions for both black and white and color photography are constantly maintained at peak efficiency by proper storage, distribution, recirculation, filtration and temperature control. A striking similarity of opinion exists between this plant and the laboratory facilities at Canaveral, namely, that once a photographic solution has been properly compounded and tested it should be maintained at the proper activity levels by replenishment and analysis rather than discarded or replaced en toto. Some of these solutions have been in storage for more than a year and have been properly maintained at their peak efficiency. It is conceivable that there is great monetary saving to this method as well as a comparable saving in man hours, but the principal objective of this system is quality control. It might be well to point out at this time that this particular type of chemical system requires adequate space for proper installation and a chemical analysis section to perform chemical titration at regular intervals and a careful and diligent inspection of the component parts of the system. It is also well to point out that some chemical formulae do not lend themselves well to this treatment. The undersigned proposes to visit the [REDACTED] chemical plant in [REDACTED] 25X1A on 26 and 27 April for the purpose of discussing those chemical solutions which best lend themselves to this treatment and at the same time inquire about the availability of the necessary solutions to operate the 20X enlarger and the film cleaning and waxing machine recently purchased from [REDACTED] 25X1A

25X1A [REDACTED] 25X1A  
[REDACTED]  
25X1A PIC/TISD/TD&SS [REDACTED] :gm(3591) - 22 Apr 60

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